

List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 11 (Cancelled).

12. (New) A transmitter, comprising:
a set of equally constructed sensors for measuring a physical variable;
a set of electronic circuits, each of which is associated with a sensor, which serve to condition an electric signal, generated by the associated sensor and corresponding to the physical variable; and
an output unit, to which the conditioned electric signals of all said sensors are supplied, wherein said output unit:
produces a measurement signal from the conditioned electric signals and makes it available for further evaluation, processing, and/or display; and
produces a statement concerning the plausibility of the measurement signal and/or a statement concerning the functional capability of individual sensors.

13. (New) The transmitter as claimed in claim 12, wherein:
the measurement signal is an average value derived from the electric signals, particularly a median or an arithmetic mean.

14. (New) The transmitter as claimed in claim 12, wherein:
the measurement signal is derived from the electric signals, and those signals that deviate from the remaining signals by more than a predetermined amount are not considered.

15. (New) The transmitter as claimed in claim 12, further comprising:
a temperature sensor associated with each set of one or more neighboring

sensors, wherein:

said sensors are pressure sensors.

16. (New) The transmitter as claimed in claim 15, wherein: said temperature sensors serve for compensation of a temperature-dependent measurement-error.

17. (New) The transmitter as claimed in claim 15, wherein:
said evaluation unit serves for determining a plausibility of temperature-dependent signals produced by said temperature sensors.

18. (New) The transmitter as claimed in claim 12, wherein:
said sensors are pressure sensors and, for measuring a pressure-difference between a first pressure (p1) and a second pressure (p2), a first set of sensors is provided for registering the first pressure (p1) and a second set of sensors is provided for registering the second pressure (p2); and
said output unit calculates the difference between the first pressure (p1) and the second pressure (p2).

19. (New) The transmitter as claimed in claim 12, wherein:
said sensors are sensors produced in a batch process and arranged on a base plate.

20. (New) The transmitter as claimed in claim 19, wherein:
said electronic circuits are arranged on said base plate.

21. (New) The transmitter as claimed in claim 12, wherein:
the transmitter issues a warning, if the functionality of a sensor falls short of a predetermined minimum functionality.

22. (New) The transmitter as claimed in claim 12, wherein:
the transmitter issues an alarm, if plausibility and/or functionality fall short
of a predetermined minimum.